

Nansen Environmental and Remote Sensing Center

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INTAROS Data Catalogue Example dataset

INTAROS collects data in different areas and spheres, using scientific instruments and through community-based monitoring. In addition, partners work with satellite data and run numerical models to derive important environmental parameters. Resulting data are registered in the INTAROS Data Catalogue with metadata providing contact details, data license, formats and links to where data are stored. The long term storage of data is ensured by existing Arctic data systems with secured funding.

In the project, GEUS has derived ice velocity maps of Greenland from Sentinel-1 imagery (Fig.1). These maps can be found through the INTAROS Data Catalogue, providing a description of the spatial and temporal resolution as well as a data access link (Fig.2).

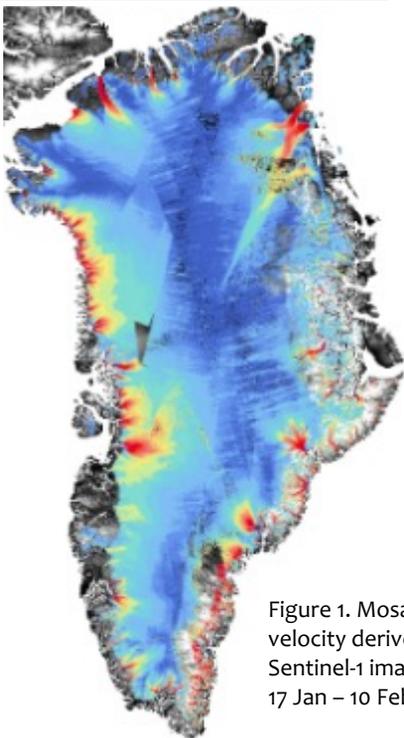


Figure 1. Mosaic of ice velocity derived from Sentinel-1 imagery, 17 Jan – 10 Feb 2018.

Ice velocity maps of the Greenland ice sheet margin based on Sentinel-1 data

This dataset consists of Ice velocity maps with a high temporal resolution. The velocity maps are derived from Sentinel-1 A and B SAR data using offset-tracking. The maps cover the Greenland Ice Sheet margin (and the interior when data is available) with a grid resolution of 500 m. Each product is a mosaic produced of all 12-day image-pairs and a selection of 6 day image-pairs available within the timeperiod of two consecutive cycles –i.e. 24 days. A new product is produced every 12 days.

Data and Resources

 **IV_20180117_20180210.png**
PROMICE ice velocity maps covering the Greenland ice sheet margin: an...

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Greenland Ice velocity SAR Sentinel-1

Additional Info

Field	Value
Source	https://dataverse01.geus.dk/dataverse/Ice_velocity
Principal Investigator	Robert S. Fausto
Data Curator	Anne Solgaard
Version	2.0
State	active
Last Updated	March 11, 2021, 2:53 PM (UTC+01:00)
Created	November 26, 2018, 2:59 PM (UTC+01:00)
Parameter name(s)	Ice surface velocity
Project/Program name(s)	PROMICE is supported by Danish Cooperation for Environment in the Arctic (DANCEA) under the Danish Energy Agency and the Geological Survey of Denmark and Greenland (GEUS)
Observing system name	PROMICE - Programme for Monitoring of the Greenland Ice Sheet

Figure 2. Dataset page for the GEUS ice velocity map.

INTAROS Data Catalogue:

<https://catalog-intaros.nersc.no/>

Access to data:

https://dataverse01.geus.dk/dataverse/Ice_velocity



The INTAROS partners collecting or generating data in the project have contributed to the INTAROS Data Catalogue.

